

REVIVAL OF TECH SHOW RECOGNIZED FOR JUNIOR WEEK

Dramashop Settles Conflict In
Dates by Dropping Dec. 9
Production

CONCERT DATE IS FREE

Following a project for the revival of Tech Show which has been under consideration since the opening of school, the sponsors have finally obtained recognition by the Institute Committee at the meeting last night after a full report of the plans, organization, budget, and resume of the work done toward the show to date had been submitted to the Executive Committee and to the Institute Committee.

The recognition, while yet semi-official, will hold until a full constitution for the show will have been submitted at the next meeting of the Institute Committee. Production of the show will be conducted as a provisionary project for one year with monthly financial reports to be submitted to the Budget Committee.

Will Be Given in Walker

This "comeback" show will be more of an all-Technology affair than its predecessors. It will be presented on Junior Week in the gymnasium of Walker Memorial. This procedure will not, however, be entirely new, for during the Institute's Open House two years ago part of the production was given in the gym. According to Mr. Frederick G. Hartwell, manager of Walker Memorial, the presentation in Walker would tend to bring about a greater Walker Memorial.

"These men have worked hard," said Charles C. Bell, '33 in supporting the revival of the show, "to revive the Tech Show; they have good backing and have shown a genuine interest in the project. There is no reason why they should be prevented from presenting the show provided they can show us a budget without deficit." Show Must Return On Small Scale

Paul Lappe, '34, who became general manager of the project for a new Tech Show when Malvin J. Mayer, '33, resigned about a month ago, said, in speaking for the show, "If the show is to come back, it must come back on a small scale. We don't intend to compete with Dramashop; rather, we intend to co-operate with them." Dramashop will share their Walker Memorial office space with the new Tech Show and will loan its curtains for the production.

Professor William C. Greene will again assume the duties of dramatic coach for the production and Langston Matthews has again been engaged to coach the dance numbers for this year's production, which will be a

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Housebreakers Abscond With Valuable Property

Yesterday morning a notice appeared on the bulletin board in the pistol stacks at the range to the effect that there would be no practice of the pistol team until further notice. The reason for the posting of this notice was that there were no pistols to be obtained with which to practice. Yesterday morning when the sergeant in charge came to open up the stacks, he found a demolished door and a broken lock, but no firearms.

In the small hours of the night some thief or thieves kicked in the lower panel of the door after having been thwarted in an attempt to enter at the window. Once inside, they broke the lock on the steel door leading to the stacks, and absconded with half a dozen pistols, the value of which has been estimated at more than two hundred dollars.

CALIFORNIANS TO PLAY AT I. F. C.

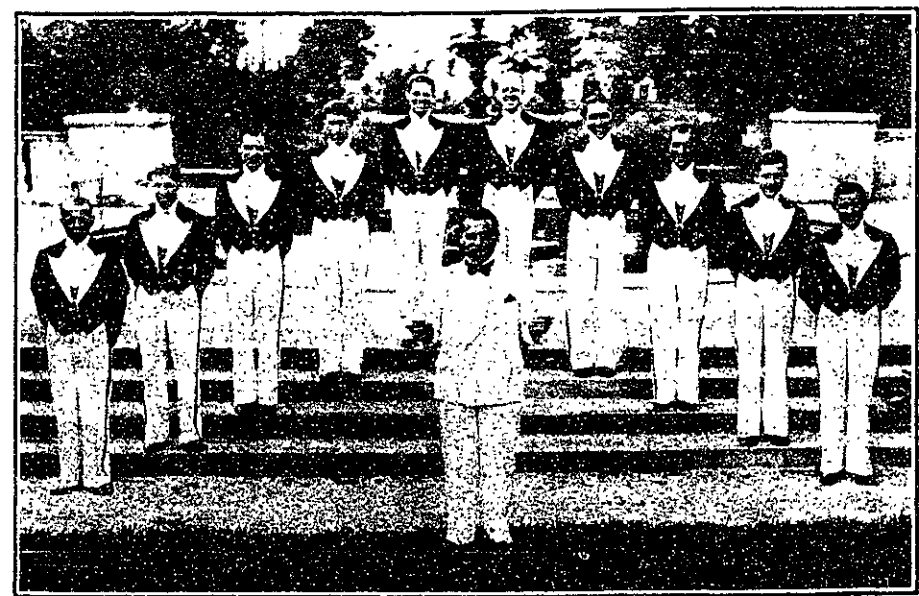
Clevelanders Out According To
Latest Plans of Prom
Committee

A last minute change in plans by the committee of the Interfraternity Conference Prom has shown that Ralph Calvetti and his Californians will play for the first part of the dance instead of the Clevelanders, as was previously arranged. This orchestra has just finished a successful year at the Coral Gables Country Club of Miami, Florida. This fall the band played at the Navy-Notre Dame Ball in Cleveland. During its stay in Miami, the band played at several night-clubs and theatres with great success.

The Prom, which will start at ten o'clock this evening in the main ballroom of the Bradford Hotel, will begin with music from the Californians which will continue until the intermission at midnight. At this time refreshments will be served and numerous specialty acts for which the Californians are famous will be presented. Also, as added attractions, Jack Richmond, Slappy Wallace, The Four Blue Diamonds, Miss Lorraine Williams, and Al Brantley will entertain the dancers. From one until the closing hour, which is three o'clock, the Alabama Aces, famed negro orchestra, will furnish the music.

One change has been made in the list of ushers for the dance since the last issue of THE TECH. Robert M. Emery, '34, will take the place of Kenneth D. Finlayson, '35.

Ralph Calvetti and his Band Who Will Furnish the Music at I. F. C. Prom Tonight



FACULTY VOTES DISCONTINUANCE OF OPEN HOUSE

Gives Insufficient Funds As
Reason for Banning
Event

Refusal of the Faculty to grant the petition of the Combined Professional Societies to hold Open House this year was announced by Clarence Westaway, '33, president of the organization. Present economic conditions were cited as reasons for the abandonment of the annual event.

The first Open House Day was held in 1923, and since then has been held nine times. It was a suggestion of the Combined Professional Societies which has had charge of the event on several occasions.

On this day the Institute throws its doors open to the general public to show the various branches of work done here. All departments are in full operation, laboratories are opened and many spectacular experiments are performed for the entertainment and information of the visitors. Displays of scientific apparatus and equipment employed in different branches of industry, and of the most recent scientific advances, are made by the various departments and societies. Athletic features, concerts, and dances also add to the pleasantness of the occasion.

More than 25,000 people attended the last Open House Day, held in 1931, mainly under the supervision of the Combined Professional Societies. The building was open from 2 until 10 P. M. Besides the numerous exhibits of the Institute work the visitors obtained a glimpse of Institute activities through the concerts given by the Combined Musical Clubs, field

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Motion Pictures of Airplanes Featured at A. E. S. Smoker

Pictures of Wright Planes and
Autogiros Shown Aero
Society

Four reels of motion pictures were featured last night at the "Movie Smoker" of the Aeronautical Engineering Society held in Room 5-330 at seven-thirty. About fifty members of the Society and their guests were present.

The subject of the pictures covered the flight of the first Wright airplane, the first ship purchased by the Army, the Polar Expedition, and other air adventuring of 1926. There was also one reel of pictures on the new autogiro. Mr. George Bentley, president of the Society, spoke on the glider work in progress, mentioning that any one desirous of instruction on gliding may meet with the group at the Hills Grove glider school at Providence this Sunday.

It was announced that Dr. K. O. Lange, of the faculty of the Meteorology Department, will speak at the next A. E. S. smoker, which will be held on Thursday, January 5, at seven-thirty, P. M. The subject of his talk will be "Meteorology in Soaring"; he will also tell something about the Elmira Meet, an international gliding competition of note.

Dr. Lange is active in the daily meteorology flights conducted by M. I. T. from Boston airport. He holds the most advanced soaring gliding license given in Germany. All members of the student body are cordially invited to attend the next A.E.S. smoker.

Speaks At Aldred Lecture



EDWARD A. FILENE

Musical Clubs Hold Christmas Concert

Concert Tickets Are Lowest In
History As Depression
Shows Effect

Climaxing the present social season, the Combined Musical Clubs are presenting the forty-eighth annual Christmas Concert and dance on December 9, in Walker Memorial.

In accordance with the trend of the times, the tickets are at the lowest price in the history of the Clubs' Christmas concerts, the price being \$2.50 per couple.

The concert will start at 8:30 o'clock, featuring selections by all the clubs, and several solos and specialty acts. Dancing is to begin at 10 o'clock, continuing until 3 o'clock. There will be an intermission at midnight when a buffet supper is served. Music for dancing will be furnished by the Technicians.

The matrons for the affair are Mrs. Karl T. Compton, Mrs. James R. Jack, Mrs. William T. Hall, and Mrs. Leicester F. Hamilton.

Foundry Introduced Into Institute Curriculum by Runkle 50 Years Ago

Noted President First To Start
Course In Manual Arts
At Technology

Rumor reaching THE TECH that some of the students in the Foundry, across the street in Building 35, were making Christmas gifts from cast metal, brought about an investigation by the paper. During the investigation some interesting facts with regard to the Foundry were obtained.

Foundry work was introduced into the curriculum of the Institute almost by accident. In 1876, Professor John D. Runkle, later president of the Institute, attended the Centennial Exposition in Philadelphia; while there he saw an exhibit of Manual Arts from the Imperial Technical School of Moscow, Russia. His request that the exhibit might be given to the Institute was granted, and from the collection were formulated courses suitable for American technical students.

Mr. J. F. O'Neill, of the Department of Mechanical Engineering, who is very much interested in the history of the Foundry, furnished some additional information. He stated that although at first only the Mechanical Engineering course included foundry work, at present there is hardly a course in the Institute which does not include at least one course in mechanical arts. The courses which were introduced at the beginning were forg-

FILENE DISCUSSES ENGINEERING MIND AT LECTURE TODAY

Boston Business Leader Will
Start Tenth Series of
Aldred Lectures

BEGAN "BASEMENT STORE"

Beginning the tenth year of the distinguished Aldred lectures, Edward A. Filene, business leader and well-known economist, will deliver an address on "The Engineering Mind in the Second Industrial Revolution" today at 3 o'clock in Room 10-250.

Mr. Filene, since he entered his father's small retail business in Boston after graduation from high school, has built up one of the country's greatest department stores.

Originated "Basement Store"

Observing conditions that caused the great waste of surplus goods, Mr. Filene conceived a plan now known throughout the country as the "basement store" by which overproduced articles are saved and distributed at a price which is lowered at regular intervals, until, after a certain period of time the goods are given to charitable organizations. When he had perfected this system, he then persuaded competitors to adopt it, resulting in a now widely spread use of the plan.

The prominent merchant was behind the movement that created the Boston City Club. Another and a far-reaching achievement that Mr. Filene was responsible for as the beginning force was the merging of the Merchants' Association, the Board of Trade and the Chamber of Commerce of Boston into one organization, a new Chamber of Commerce. Later he did the same in other cities, finally uniting them all into a national Chamber of Commerce. When the war had finished, his efforts were culminated in an international association composed of the representatives of reformed chambers of commerce in European and other countries.

One ambition upon which he has

(Continued on page three)

ing; woodworking, which was subdivided into carpentry, wood-turning, and pattern-making; foundry; bench and vise work; and finally, machine-tool work.

Lab Method is Most Efficient

In Professor Runkle's report to the Massachusetts Bureau of Education, he stressed the difference between arts and trades. Mr. O'Neill brought out some of his points particularly well. Engineering students, he said, need practical knowledge to aid them in designing and for a general rounding-out of the engineering education. In a good many schools, students are trained for one particular trade, and the emphasis is placed on skill; in the Institute, skill is a secondary consideration. Engineering training is of primary importance; mechanical training, while valuable, yields first place to education in the fundamental principles. In the Institute courses, training is not accomplished by the haphazard shop method, but rather by the scientific laboratory method, since it has been demonstrated that this method will instruct engineering students more rapidly. Under the inspiration and guidance of Professor E. F. Miller, head of the Department of Mechanical Engineering, and Professor C. F. Park, Director of the Mechanical Laboratories, the courses have become very popular at the Institute.

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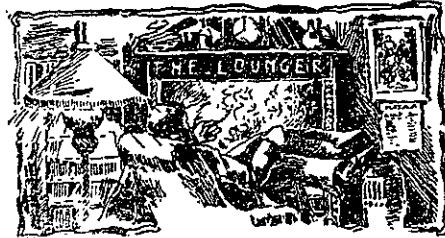
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And so to the Dramashop production, a small matter now under the process of rehearsal. Strange to say, the idea of Dramashop productions does not stir the average Technology heart to undue palpitations, as do other more subtle and intellectual academic pleasures such as the Circus, or Tech Show.

Unfortunately, we arrived somewhat late, and our arrival was immediately heralded by loud clamors on the part of Dean Fuller. This being a dead give-away, the cast became silent and uncommunicative, making the writing of all the dirt that's fit to print a matter of no mean difficulty. Such are the disadvantages of notoriety.

While we were bemoaning this awful dearth of material, one of the cast members sidled cautiously up and offered to present a little something of his own creation. Accepting the kind offer, we respectfully present the result which came by special messenger this morning.

Saga of the Dramashop or The Lounger's Interview by Little Jimmy Souders

Do yo' dramashopping early, yow-sah, folks, a lie for a lie, and a lie for a truth. And being as how our little college colleague on this yere official college organ absolutely refuses to pour forth the exotic tale of love life at Technology, gathered in deah old Rogers not half a week since, your own squandering reporter needs must report.

So on to a bit of background, lads, a touch, as it were, of local color. Soft lights, no music, — just chimes, gay Christmas chimes, getting in our path as we tramped vaguely to and fro about the coulisses, (you coulisse madness, but the French call it backstage) stumbling here on Hentschel, there on Fuller, until at long last we found them — poor little lost fledglings perched unsatisfactorily on a crimson backdrop, puffing away with their tiny lips at great long cigars.

"Perhaps," we said, with perfume in our parlance, "you would divulge just the tiniest wingtip of your little bird lives, eh, my pretties?" (Fetching baring of teeth here.)

"Oh yes, we'd love to," exclaimed Miss Bacon. (The names used here are fictitious for obvious reasons). "Now," continued the ingenue, "I was born — " "But I'm bored and I've born enough," interceded Miss Fairchild, "We have no comment to make at this time!"

She drew herself up to her majestic height and literally swept off the stage, finally surrendering the broom to a passing architect. Not easily daunted, however, we pushed on with inquiries into the very darkest corners of architectural life, into the source of Miss Bacon's career inspiration (which, by the way, we found to be a tall dark person with haunting eyes, hardwood floors, and no extra fare on Sundays and holidays.)

At length, drawn from her retreat and questioned before a representative group of Beacon Street lodgemen, as to what she would be when graduated from Our Sacred Halls, she threw back her pretty little head, hastily retrieved it, and screamed, "A Total Wreck!" And so my brothers, — now you chase me.

N. B. Dramashop announces, as a special added attraction a genuwine South African starrng vehicle, with four speeds forward, dual ratio ears, and all the breaks. The King's Hinglish his youahs' foah the harsking!

(Here ends the Saga)

Lest you be somewhat puzzled by the free and handsome bandying of personalities in the foregoing we humbly suggest that you witness for yourself the King's Hinglish, Miss Bacon, and the tall dark person with haunting eyes and hardwood floors. We presume you could even have a few wax at it yourself, so to speak.

General Business Depression Makes Job Finding Difficult For Students

Few Positions Yield Pecuniary Advantages; Most Pay Is As Board

Because of the generally depressed condition of business and industry throughout the country, it has become increasingly difficult for the student to earn his college expenses, Mr. Penal N. Aborn of the Employment Bureau told a reporter of THE TECH recently. Many students who have been working find it necessary to increase their efforts, mainly because the portion of expenses which they must earn has increased. In addition some men who have not had to do anything toward meeting the costs of their stay here now find it necessary to help earn their expenses.

Last summer saw a considerable drop in the number of positions offered, and the failure to secure a job is undoubtedly one reason why some men have not returned this fall. The continued lack of an increase in the amount of work since the opening of school has made it necessary for some men to withdraw, and those remaining find it difficult to make both ends meet.

Mr. Aborn attributed the lack of opportunity for the newcomer to several conditions. Generally men switch

from one job to another, especially in their schedules vary from year to year, but this year men who have jobs are holding onto them, regardless of whether or not they are ideal.

Graduates also, unable to obtain regular work, are keeping on with the jobs they held as students. Sometimes they have been given full time work by the employer who hired them at part time, thus eliminating the part time job. It is hard for a Technology man to get a position because he must spend so much of his time in the classroom and laboratory.

In spite of these obstacles the Undergraduate Employment Bureau has been able to assist many men in solving their problems, and to date has given some sort of work to one hundred and seventy men. Mr. Aborn said there were very few outside jobs and that Technology was so organized that only a few inside jobs existed, Walker Memorial dining service providing most.

Of the available outside jobs, only a few pay cash; money seems to be very scarce now. Room or board and once in a great while both, seems to be the method of payment most popular. Some positions are being found all the time so there is always a ray of hope, but outside of a few odd jobs one cannot expect to earn much cash.

THE EDITORIAL SPECULUM

Commentary

Back in the glorious days of '28 the price of saddle horses soared. Hunt clubs sprang forth like mushrooms after a spring rain. Everyone of any importance was learning to ride. Red coats and riding habits dotted the countryside, and in the more urban communities there was always a polo uniform in use. The horse was coming back!

But not the draft horse. He was still going out. Vanished from the cities almost completely, he was less and less often seen in the country. The gas engine could do the horse's work much better than the horse. It ate no hay. It ate only while it worked and while it worked it ate only gasoline. Gasoline and tractor were far cheaper than the last useful friend of man, the horse. What was friendship compared to profit? It was only what it could be — nothing. And the horse decreased in numbers.

Then came the panic. The bottom dropped from the stock market, and the average man lost half his income. But profit must be served. Economize and reduce expenses were the by words, are the by words, of conversation. Pleasure must bow to Profit. The horse suffered again.

The socially well mounted burst their saddle girths. Their saddles slipped and swayed and they preferred to walk home after the heat of the chase. And the less well mounted swayed. The margin of safety from catastrophe grew smaller, and smaller, and then vanished. The riders fell to the earth and the horses galloped away. Those who had fallen must walk.

But the horse was coming back. Gas costs money and the tractor lolled in repairs. Sound banks would no longer lend money to the bankrupt. The tractor eats gas and Profit must be served. Who would do the work? The work horse would do the work. Men rushed to the harness and arrayed it in its proper position.

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But the heroines always come in for their share of the scurrilous comments from this corner, and we think it only fair to spy around for the rest of the illustrious cast.

There is for instance, some mysterious and subtly powerful attraction about the town of Hanover which is drawing friend Souders far away and over the hills, making it just impossible for him to appear for rehearsal Saturday night. We understand that the college of Dampmouth is somewhere up there.

Psi Delta Accepted In Phi Delta Theta Following Petition

Total Membership Over Thirty- Five Thousand: Eighty- Nine Houses

Phi Delta Theta has gained a new representative in the form of Psi Delta which recently became an accepted chapter of that organization. Psi Delta, founded at Technology in 1922, received a unanimous vote of approval from the Alpha Province and the Phi Delta Theta Alumni Club at Technology after about six years of active interest. It was not, however, until 1931 that Psi Delta began active petitioning for membership with that organization.

Phi Delta Theta was founded at Miami University, Oxford, Ohio, December 26, 1848. In 1930 there were ninety-seven active chapters and twenty-one inactive. The total membership was 35,876 and the valuation of the eighty-nine houses owned by the fraternity was \$3,060,000.

Badge Adopted in 1849

The badge, consisting of a shield with a scroll bearing the Greek letters of the fraternity in the lower part of the field, and an eye in the upper part, was adopted in 1849. In 1866 an addition to it was made, of a sword attached to the shield by a chain. Argent and azure were selected as the fraternity colors in 1871, and a coat of arms was adopted in 1889, the design of which was changed in 1891 and 1896.

The last (1906) design consists of three vertical bars of equal width; the outer bars blue and the middle bar white; each of the outer bars is charged with three five-pointed stars; the middle bar charged with the Greek letters of the fraternity name, the letters in blue, reading downward; the whole being two-thirds of the length. In 1891 the white carnation was adopted as the fraternity flower. A cheer was adopted in 1891 and a whistle in 1894. The colors of the pledge button are white and blue.

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FIREMAN SAVE MY CHILD!

SUCH a cry is quite appropriate at a conflagration, but we sincerely hope that the Cambridge fire department which has been called to the Institute on numerous occasions to extinguish bonfires started by exuberant students will permit the freshmen to go through with their plans to dispose of the freshman ties in an appropriate manner sometime before Christmas. The newly-elected officers of the first year men are showing that they are awake, and we do not want them to be discouraged in their first efforts to instill spirit into the class.

The fire is harmless in itself; will not someone who can be responsible, guarantee the conduct of the affair and assure the firemen that they will not be maltreated so that we can have our celebration. Go to it, freshmen, let's have the old fire!

SANCTITY OF THE DATE

SOME years ago the calendar committee of the Institute Committee was established, ostensibly to prevent just such conflicts as that which has arisen between the Combined Musical Clubs and Dramashop, both giving performances next Friday evening. Neither organization is so operated that it can afford to draw less than an almost capacity audience. This condition makes the state of affairs even more deplorable.

From the facts of the case it appears that the Musical Clubs have all the rights. They applied for the date last spring and were definitely assigned to it. Dramashop was given the first, second, and third of December, but some change at Rogers Building required that the performances be postponed. Unfortunately, the new dates chosen included that already allotted to the Musical Clubs, even so long as eight months ago. Obviously Dramashop is at fault, and it should make some sacrifice, perhaps even to omitting its performance on Friday evening.

There is some modicum of blame that may be attached to the Calendar Committee for permitting Dramashop to announce its play for the ninth when it had already assigned the date to another group which requires student patronage just as much. In addition, the matter of the conflict of dates was called to the attention of the Calendar Committee two weeks ago by the general manager of Musical Clubs, but no effort was made to prevent Dramashop from taking the conflicting date. Some sacrifice to the Musical Clubs is necessary on the part of the two groups at fault; we trust a satisfactory agreement is reached by the three parties concerned. Once again the horrible example of what the Calendar Committee must avoid is here.

WE SHALL SEE IT

THIRTY hours: five six-hour days. What a contrast to the sixty-hour week of a few brief years ago, and to the fifty-five-hour week of some industries even today. The American Federation of Labor comes forth with a declaration in favor of the shorter working week. It has continually favored movements looking to giving the working man more leisure, but its last step was somewhat unexpected.

Doubtless the latest stand is a direct result of the current economic depression and the shortage of jobs. By shortening the working week, the A. F. of L. hopes to distribute the work among a greater number of men. Such a step, if taken by industry now, would probably do something to help the unemployment situation.

But what we are all looking forward to is the time when the thirty-hour week will be used, not during times of depression and for the purpose of distributing work, but rather all the time and because technological improvements in production and distribution will make it unnecessary for us to work longer. In his talk before the Faculty Club, Julian Huxley foresaw the coming of this time. It is not so far away as we may think. It is entirely within the grasp of reason. Probably even we shall live to see it come, and science as typified by the engineer will bring it about. We shall ourselves see the coming of the thirty-hour week, and we shall have a part in bringing it about.

CHI EPSILON NAMES PROFESSOR MORRIS

At the initiation banquet of the Technology Chapter of Chi Epsilon, National Honorary Civil Engineering Fraternity, Fredrick K. Morris, professor of geology, and five Seniors in the civil engineering course were made members of the Society. Following the ceremonies Professor Morris delivered the main speech of the evening in which he told of experiences in his engineering career.

The Seniors who have been elected to the Fraternity and who received their keys are Herbert Grundman, Edward L. Jones, John B. McAleer, Alexander J. Minkus, and Lincoln W. Ryder.

REVIVAL OF TECH SHOW RECOGNIZED

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musical comedy based on Technology. Organization for the show will begin immediately, positions in every department from staging to business being available.

Dramashop Accepted As Class A Activity

Further business at the Institute Committee's meeting saw the acceptance of Dramashop as a Class A activity under Article IV, Section 4 of the Undergraduate Constitution through the provisions of Article IV, Section 5. The committee voted approval of December 8, 9, and 10, as dates for the production of "The Pigeon" provided the Dramashop pay to the Combined Musical Clubs the sum of \$25.

Those favoring the acceptance of Dramashop as a class A activity pointed out that not only has the group shown through its work of the past year that it was worthy, but also the need for representation in the Institute Committee has made itself evident on more than one occasion because of its dates conflicting with those of some other activity. As has been noted before, the Dramashop in postponing its production dates from December 2 and 3 to December 8, 9, and 10 has incurred a conflict with the Musical Clubs' Christmas Concert and Dance scheduled for December 9. A similar conflict occurred last year but no action was taken at that time. This year, however, in order to reimburse the Musical Clubs, the payment of 25 dollars was decided upon in the nature of a fine.

Dramashop Cancels December 9 Production

After being informed of the decision by the Institute Committee regarding the conflicting dates, Professor Dean M. Fuller, coach of the Dramashop production, and Robert A. A. Hentschel, '33, general manager of Dramashop decided to abandon the production of "The Pigeon" on December 9 in order to avoid any controversy and ill-feeling between the two activities. This decision, while it will be financially detrimental to Dramashop, will leave the date clear for the Christmas Concert.

TICKET SALE FOR "PIGEON" IN PROGRESS

Seats for the first 1932-1933 season Dramashop production are now on sale. The play is "The Pigeon" by John Galsworthy. This play, written in 1912, has had immense popularity and is still regarded as one of the foremost plays of this author. Its greatest appeal is to English people and it is performed before London audiences at least once a season. The story is that of a wealthy English artist who is very fond of giving charity but does not know exactly how to go about it. The other characters in the play are generally on the spot to advise him.

Although the Faculty Club has obtained the entire "first night" house, the student body and members of the instructing staff may purchase tickets for the night of December 10th. Seats are on sale for one dollar either in Room 2-176 or from members of the cast or management.

BENNETT TO DELIVER COSMIC RAY LECTURE

Lecturer Studied Phenomena In Alaska and the Rockies

Cosmic rays, the mysterious phenomena which have been the subject of world-wide scientific study during the past few months, will be discussed in the first of the annual popular Science lectures to be held under the auspices of the Society of Arts at the Institute on Sunday, December 11.

Professor Ralph D. Bennett of the department of electrical engineering, who recently returned from an intensive study of cosmic radiation in Alaska and the Rocky Mountains, will speak on "Cosmic Rays — the Mystery of Modern Physics", at 4 p. m. in Room 10-250. The lecture will be illustrated by experiments demonstrating the existence and properties of this baffling phenomenon.

Professor Bennett's recent investigations were made in conjunction with the international study conducted by Dr. Arthur H. Compton for the Carnegie Institution of Washington. In the course of this research similar instruments and methods were employed at many points on the earth's surface in an effort to determine the origin and nature of cosmic rays.

The second address of the series will be delivered by Dr. Tenney L. Davis, associate professor of organic chemistry, on January 15. He will describe "Chemistry as Art, as Magic, and as Science".

"The Navy of the Air" will be discussed by Commander Henry E. Russell of the United States Navy, and professor of naval construction, in the third lecture to be held in February 12.

Professor Francis W. Sears, of the department of physics, will talk on "Waves and Wave Motion" in the final popular science address on March 12.

These lectures are also given on the preceding Friday and Saturday for the benefit of pupils of high and preparatory schools.

George Owen of Bruins Talk at Hockey Meeting

Former Harvard Luminary, Son Of Institute Professor, Addresses Squad

George Owen of the Boston Bruins, former Harvard athlete and one of the few college hockey stars to make good in professional ranks, addressed the varsity and freshman hockey squads at a meeting held Wednesday afternoon at 5 o'clock in Room 10-275. Owen, whose stellar work at defense has excited the admiration of all Boston hockey fans for the last four years, is the son of Professor George Owen of the Department of Naval Architecture.

Approximately thirty varsity and freshman candidates were present at the affair, as were Professor Owen and Coach Vic Duplin. The talk was presented in the form of a discussion in which Coach Duplin, who introduced the speaker, asked him a series of questions regarding the duties of the various players. Several members of the squad also raised questions, which were quickly answered by the Bruin star.

Stresses Importance of Shooting

Owen emphasized the difference between hockey as played on an outdoor pond and as played on an indoor rink. He showed that, because of the lack of definite boundaries in a game on a pond, skating and stick-handling are most important; on a boarded rink, however, proficiency in shooting is most desirable. He therefore advised the team to improve the speed and accuracy of their shots as much as possible.

The speaker cautioned the forwards against slowing up as they approached the defense, and advised them to back-check whenever possible. He also gave many valuable hints to the can-

Professor Mason Will Give Free Socialism Talk

Series of Lectures On Planned Economy Begin Next Monday

On Monday, December 5, Edward S. Mason, B. Litt., Ph.D., and Associate Professor of Economics in Harvard University, will begin a series of lectures on the Economic Problems of Socialism and of a Planned Economy. These lectures will be given in Huntington Hall at 491 Boylston St., at 5:00 P. M. They are under the auspices of the Lowell Institute.

Professor Mason has been for many years a student of the developments of Socialism. He spent the past academic year in Austria studying conditions there and returned this fall to resume his teaching at Harvard. He is the author of two books: *Paris Commune* and *Street Railways in Massachusetts*.

According to the curator of Lowell Institute the doors, which will be opened at 4:30 P. M., will be closed promptly at 5:00. Anyone arriving after that time will be denied admittance. This is in order that the lecturer and his audience may not be annoyed.

The series will consist of three Monday, three Wednesday, and two Friday lectures, arranged as follows:

1. Marxian Socialism as Tactics and as Program.
December 5 (Monday)
2. Freedom and Authority in the Mexican State.
December 7 (Wednesday)
3. The Counting of Costs in a Socialist Society.
December 9 (Friday)
4. The Nature and Meaning of Costs in a Socialist Society.
December 12 (Monday)
5. Can a Socialist Society Utilize Its Resources Nationally?
December 16 (Friday)
6. Socialism an Economic Planning.
December 19 (Monday)
7. The Russian Experience.
December 21 (Wednesday)

Tickets may be secured, free of charge, by applying by mail to the curator of the Lowell Institute, 491 Boylston St., Boston, and enclosing one stamped, self-addressed envelope for each ticket desired.

FILENE TO GIVE FIRST ALDRED LECTURE TODAY

(Continued from page one)

worked a great deal during his life is that of "shop democracy" — of giving to his employees special privileges and powers.

Worked On Cost of Distribution

Another aim of his was to decrease the cost of distribution which he considered as bad management. Always an admirer of Henry Ford, pioneer and builder in production, Mr. Filene wished to follow Mr. Ford's example in revolutionizing manufacture by a similar movement in bettering distribution.

An international translator was originated by Mr. Filene, by which the members of a convention of different countries can by turning a dial hear a speech given in any one of several languages. This feat is accomplished by sending relays of the address given through special translators. This instrument has been used by the League of Nations Assembly and the International Labor Bureau at Geneva.

Mr. Filene has written several books, including "Successful Living in This Machine Age", "The Way Out", and "More Profits from Merchandising".

didates for defense, the position he usually plays on the Bruins. Throughout the entire talk, he illustrated his points with anecdotes from his professional experiences, which proved most interesting to the entire audience.

The Sports Desk

When the varsity basketball team was playing the Catholic Club team from Winthrop the other day, considerable trouble was caused by unfamiliarity with one of the new rules of the game. This rule is designed to prevent stalling and to speed up the play. The ruling provides that a team which has brought the ball from its own side of the center line into the opponents' territory, may not pass or carry the ball across the center line. Then penalty for infringement of this ruling is that the ball shall be given outside at the center line to the opponents.

We see by the schedules on the bulletin boards in the dorms that dorm basketball has started. This year, instead of each dormitory having its own team, as has always been the custom, there will be two combination teams from the old dorms — one from Atkinson and Holman and one from Nichols, Ware, and Crafts. This has been necessitated by the lack of interest shown by the graduate students in the last three and by the small size of the first two. Nichols was the winner last year, beating Wood in the finals, but then it was not a graduate dorm. Many of the Nichols players now reside in Runkle, which was the runner-up in the old dorms, while Wood has lost its star, Tom Shaughnessy, who has gone out for the varsity.

The first results in the dorm league show that the former inmates of Nichols carried their winning ways into Runkle with them. The Runkle squad, comprising at least three full teams, won its first contest by a 46 to 5 count. The other team was all for the idea of distributing the Runkleites throughout the other dorms to even things up.

Speaking to about thirty members of the varsity and freshman hockey squads on Wednesday afternoon, George Owen, formerly of Harvard, and now one of the star defense men on the Boston Bruins, gave the forwards some good advice. Said Owen, "Don't slow up as you come in on the defense, and don't worry too much about a high stick; when you're on the offense the officials are pretty lenient about that. Of course, your idea in carrying a high stick isn't to hurt your man deliberately; you're only making sure he doesn't have too easy a time checking you!" All of which bears out our opinion that hockey is just a nice, gentlemanly game.

P. T. McCarthy's basketball prospects took something of a drop Wednesday afternoon when Joe Oldham twisted his ankle in practice. Oldham, a prominent substitute last winter, seemed slated for a starting berth at either guard or forward, but now his chances of being back in shape by next Saturday seem slim. He was unable to stand on the injured member for some time after the accident, and the doctor has ordered at least a full week's rest. Should he still be incapacitated at game time, more work will fall on the shoulders of Pat Amenta and Tom Shaughnessy, who with Oldham were waging a battle royal for a regular position.

REYNOLDS IS CHOSEN TAU BETA PI MEMBER

Initiation Held Last Wednesday At Commander Hotel

Announcement has been made of the election of Kenneth G. Reynolds, assistant professor of hydraulics at the Institute, to membership in the Tufts College Chapter of Tau Beta Pi, national honorary fraternity for engineers. The initiation ceremonies and banquet were held on November 30 at the Commander Hotel in Cambridge. Election to membership in Tau Beta Pi is considered one of the highest distinctions in the engineering field.

Professor Reynolds was graduated from the Engineering School of Tufts College with high honors in 1919, and in 1925 received the degree of master of science at Technology. He has been a member of the staff at the Institute since 1920.

From 1927 to 1929 Professor Reynolds made a study of river hydraulic laboratories in Europe as a John R. Freeman Traveling Fellow of the Boston Society of Civil Engineers. Since his return, he has directed river hydraulic research at the Institute.

He is a member of the Boston Society of Civil Engineers, and an associate member of the American Society of Civil Engineers. He is also secretary of the Finance Committee of Emergency Planning and Research Bureau, Inc., an organization sponsored by the Engineering Societies of Boston to provide temporary employment for engineers and architects during the depression.

FACULTY DECIDES ON NO 1933 OPEN HOUSE

(Continued from page one)

events, visits to activity offices, and a performance given by the Tech Show.

The Technique Rush and a triangular crew race between Harvard, Princeton, and Technology were two features of the day.

Mr. Westaway also stated that a meeting of the Combined Professional Societies was to be held Wednesday to plan an attempt to arouse interest in the Stratton prizes, and to see what help they could render to individual societies.

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CALENDAR

Friday, December 2

3:00 P. M. — Aldred Lecture by Edward E. Filene — Subject: "The Engineering Mind in the Second Industrial Revolution", Room 10-250.
5:00 P. M. — Radio Society Lecture by Hollis S. Baird on "Modern Developments in Television", Room 10-275.

Saturday, December 3

6:30 P. M. — Technique Group Pictures, North Hall, Walker Memorial.

Monday, December 5

6:30 P. M. — Course VI-A Seminar Dinner, North Hall, Walker Memorial.
6:30 P. M. — Tau Beta Pi Initiation, University Club, Commonwealth Avenue, Boston.

LARGE BOXING SQUAD WORKING OUT IN GYM

Twenty Men Practice Regularly;
First Meet In January

With every man working out regularly three times a week, the boxing teams appear to be starting on a successful season, according to a statement given THE TECH by Walter C. Wooding, '34, manager. There are eleven men on the varsity squad and eight on the freshmen, one of the largest squads the team has had in the past few years, and Coach Tommy Rawson has great confidence in the abilities of his two teams.

So far the varsity schedule consists of five meets, with the possibility of a sixth encounter. The freshman program has not yet been completed. The schedule for the varsity follows:
January 16—HarvardUndecided
February 11—Coast Guard AcademyHere
February 18—SyracuseSyracuse
February 25—ArmyWest Point
March 10—C. C. N. Y.New York

There also is a meet for both the freshmen and the varsity with Yale pending for March 4.

FOUNDRY HERE 50 YEARS AGO

(Continued from page one)

In the beginning of the work, the Instructor accompanies a lecture on the methods by actual demonstration. He makes the molds, which are usually of some typical piece found in engineering and shop practice. He explains the correct methods of tempering the sand, embedding the pattern, ramming the mold, and gating, venting, and spruing the mold. He takes up the correct pouring temperatures, and the proper technique in pouring. This process is fully as important as any other in order to produce sound castings.

Commercial Methods Studied

Besides discussion and demonstration of hand methods, commercial practice is taken up. The use of compressed air casting machines, multiple patterns, continuous pouring, conveyors, temperature and sand control, are studied comprehensively. The use of lantern slides and motion pictures aids in the study of commercial mass-production methods. Visits are made to foundries near home, with guides to point out the processes especially valuable to engineering men.

The courses include sand-casting, permanent-mold-casting, centrifugal-casting and die-casting. The metals used vary all through the range of ferrous and non-ferrous metals and the latest alloys. In order that the work may be fairly distributed, each student is employed on the same project at the same time. The courses in the foundry, said Mr. O'Neill, cooperate with other courses in the Institute, such as machine design, mechanical drawing, metallography and metallurgy, materials of engineering, testing materials, X-ray study, etc. The students, besides having notes on foundry practice, have access to government reports, commercial catalogues, and library references.

Students Make Book Ends

The foundry work itself is very interesting. Toward the end of the course, each student is encouraged to bring some pattern of his own to reproduce in metal. The foundry department also has a wide assortment of patterns, which are loaned to the students for them to make reproductions. Patterns include ship models, subjects in bas-relief, and various decorative designs, including Technology seals and many patterns of book-ends.

By this time the students have

enough experience to do the work entirely by themselves. They place the pattern on a board and tamp moist sand around it. The pattern is then removed from the mold, which is next gated properly, vented to allow the escape of air or gas in the mold, and sprued to allow the metal to flow. Next the casting metal, in a molten state, is poured in. Cast iron, aluminum, and bronze are most popular for casting. If bronze or aluminum are used, the piece may be finished by buffing to bring out the highlights. If the metal is cast iron, it may be lacquered, painted with special "multichrome" colors, or plated with

bronze, chromium, or other desired finish. When the finish has been put on, felt is often glued to the back or bottom to protect woodwork from the rough edges. When a good pair of book-ends is completed, the student has a valuable article which he can use if he desires to decorate his room, or else send to a friend as a very acceptable Christmas gift.

TAU BETA PI ELECTS FOURTEEN MEMBERS

Together with fourteen undergraduates, Gerald Swope, president of the General Electric Company and member of the Institute Corporation, will be initiated into the Tau Beta Pi Honorary Fraternity on Monday night at the University Club. The ceremonies at which all members of the fraternity are expected to be present will begin at six-thirty.

The new undergraduates elected include eleven Seniors and three Juniors. Members of the fraternity are chosen on a scholastic basis with activity requirements, and only from the engineering courses.

THE EDITORIAL SPECULUM

(Continued from page two)

So the horse it with us again. Will he stay? In 1920 there were about twenty-five million horses in America. In 1929 there were nineteen million. In 1940 there will be twelve million. But in 1929 horses were demanded for pleasure. The work horse had become the forgotten horse, and he rose in his wrath, and threw the people to the ground, and went back to his work.

In 1940, let us hope, we shall not forget the horse. We will use the horse where the horse must be used, and machines and manipulations we shall also confine to the fields in which they may properly be used. Then, as our figures show, we will retire the horse, not betray him.

Mr. Swope, one of the outstanding leaders in Industrial America, was elected to the Society as an honorary member last spring but was unable to attend the initiation at that time. The principle speaker for Monday's meeting will be President Karl T. Compton.



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